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MEMORANDUM FOR: Recipients of [REDACTED], RCA-09/0028/80
Kazan Airframe Plant Gorbunov 22 (S)
Basic Imagery Interpretation Report
Dated September 1980

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SUBJECT : Replacement of table and corrections in text

Please replace Table 1 with the attached table. Also, on
page 2, paragraph 7, line 3 should read: building item 66,
Table 1 and Figure 5 and on page 7, Table 2, the bort number for

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unfinished building currently contains [] square meters of assembly/subassembly floorspace, [] square meters of shop/support floorspace, and [] square meters of administration/ engineering floor-space. 25X1
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9. (S/D) During the period of this report, four small storage buildings totaling 2,375 square meters were razed (Figure 3). Taking into account the razed buildings and buildings still under construction, the increase of floorspace at the building was 270,987 square meters as of [] This increase brings the overall total of plant floorspace to 679,110 square meters. 25X2

Miscellaneous Construction

10. (S/D) A new area is under construction outside the south plant area which may be related to either Kazan 22 or Kazan Aircraft Engine Plant 16 [] and consists of an assembly building (tentatively 19,000 square meters) and a shop building ([] square meters). This new area is annotated as "New Construction Area" on Figure 3. Also, a new american-deck cooler (Figure 3), [] long by [] wide, had been completed by [] Further, construction on a possible warehouse (item 53, Table 1 and Figure 3), which was reported in the last update, has not progressed significantly. 25X2
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Production Activity

BACKFIRE B

11. [] This plant is the only known airframe assembly facility for the BACKFIRE B which is a Tupolev-designed, variable-geometry bomber with twin uprated NK-144 engines.⁴ Production is estimated to be 2.5 aircraft per month, about 30 per year.⁵ The number of BACKFIRE B observed at the plant during the period of this report varied somewhat, but the overall increase, which occurred during the early part of 1980 and culminated in a high count of 19 BACKFIRE B aircraft observed on imagery of [] was due at least in part to the large number of Modified BACKFIRE B aircraft present [] Table 2 lists BACKFIRE B sightings at the plant. 25X2
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12. (S/D) There is some evidence that BACKFIRE B aircraft return to the plant periodically for maintenance/refurbishment and other reasons. For example, one or two of the early production model BACKFIRE B aircraft were at the plant for varying periods of time beginning as early as [] These aircraft are distinguishable from the later production B model in that they have a vertical stabilizer tip pod and a dark-toned area on the leading edge of the vertical stabilizer. 25X2
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13. [] Although Kazan 22 is the only known assembly plant for the BACKFIRE, it is reported that components are produced at some other plants within the USSR. Irkutsk Airframe Plant 39 [] was reported to be involved with the production of wings or parts of wings for the BACKFIRE⁶ although no photographic evidence has been observed. However, although no COMINT information exists to link Kazan 22 and Komsomolsk Airframe Plant 126 [] photographic evidence indicates a link between the two plants which could be BACKFIRE related. Two types of 25X2
25X2
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Modified BACKFIRE B

15. (S/D) A Modified BACKFIRE B prototype was observed at Ramenskoye Flight Test Center [] Detailed reanalysis of previous imagery revealed that a Modified BACKFIRE B was at Ramenskoye FTC as early as [] This aircraft subsequently burned in May 1978. A Modified BACKFIRE B was at Kazan 22 as early as [] and probably flew to Ramenskoye FTC shortly thereafter. This was probably the first prototype produced at the plant. The Modified BACKFIRE B is characterized by the presence of reconfigured air inlets and a streamlined nose (Figures 9 and 10). The inlets are wedge shaped with rectangular air intake trunks similar to those on the US-produced F-15 fighter. The nose has been reconfigured so that the refueling probe housing no longer protrudes from the top of the nose. 25X2
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16. (S/D) Since the first Modified BACKFIRE B was observed on [] the count has risen to six at the plant (Table 2). However, a total of at least eight Modified BACKFIRE B are currently in existence because same day coverage on [] revealed one Modified BACKFIRE B at Ramenskoye FTC, one Modified B at Akhtubinsk FTC [] and six at the plant. Such a large number of Modified BACKFIRE B prototypes at the plant is unusual for a test program and indicates that there are some problems with the aircraft. However, the fact that one was observed for the first time at Akhtubinsk FTC on [] indicates that the test program is still underway and that the aircraft has moved into the weapons-test phase. The Modified BACKFIRE B is not yet in series production. 25X2
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Table 1.
 Mensural and Construction Data, Kazan Airframe Plant Gorbunov 22
 (Keyed to Figures 2, 3, 4, and 5)

This table in its entirety is classified SECRET//NOINTEL

Item	Description/ Function	Dimensions* (m)			Floorspace (sq m)	Date Observed Complete	Remarks	Item	Description/ Function	Dimensions* (m)			Floorspace (sq m)	Date Observed Complete	Remarks
		L	W	H						L	W	H			
1	Shop/stor bldg						(4)**	f	Assembly/subassembly sec						Late stage of construction
2	Shop/stor bldg						(6)**								as of []
3	Admin/shop bldg						(9)** 2 stories	g	Engr/shop sec						Late stage of construction
4	Elec power substation						(11)**								as of [] 5 stories
5	Shop bldg						(12)**	h	Assembly/subassembly sec						
6	Shop bldg						(14)**	i	Assembly/subassembly sec						
7	Support bldg						(13)**	j	Engr/shop sec						Appeared to be
8	Warehouse						(1)**								externally complete
9	Warehouse						(21)**								prior to Apr 78
10	Stor bldg						(2)**	k	Assembly/subassembly sec						
11	Workshop						(3)**	l	Assembly/subassembly sec						Early stage of construction
12	Stor bldg						(4)**								as of []
13	Stor bldg						(6)**	m	Engr/shop sec						25X2
14	Admin bldg						(28)†								Multistorey, probably 5
15	Workshop						(7)**	n	Assembly/subassembly sec						(floorspace figure tentative)
16	Prob shop bldg						(8)**	p	Engr/shop sec						5 stories
17	Lab/engr bldg						(18)** 3 stories	q	Prob assembly/ subassembly sec						
18	Stor/spt bldg						(15)**								
19	Shop/spt bldg						(17)**	45	Workshop						(56)**
20	Stor bldg						(9)**	46	Shop bldg						(24)**
21	Admin/engr bldg						(12)** 4 stories	47	Subassembly bldg						(39)**
22	Workshop						(14)**	48	Storage bldg						
23	Workshop						(17)**	49	Workshop						(45)**
24	Stor/spt bldg						Observed ucom []	50	Workshop						(96)**
25	Prob dining hall						(24)† previously referred to as admin/eng	51	Workshop						(95)** airfield related
26	Stor bldg						(22)**	52	Quonset stor bldg						(6)†
27	Warehouse						(18)**	53	Quonset stor bldg						(6)†
28	Prob stor/spt bldg						Observed ucom [] early stage of construction as of []	54	Quonset stor bldg						(6)†
29	Machine shop						(20)**	55	Engr bldg						(92)** 4 stories
30	Foundry						(21)**	56	Hangar						(93)** airfield related
31	Workshop						(22)**	57	Stor/spt bldg						(7)†
32	Quonset stor bldg						(22)**	58	Admin bldg						(87)**
33	Shop bldg						(21)†	59	Fit ops bldg						(83)**
34	Forge/foundry bldg						(25)**	60	Quonset stor bldg						(9)†
35	Storage bldg						(26)**	61	Support bldg						(82)**
36	Admin bldg						(27)** 2 stories	62	Hangar						(81)**
37	Admin bldg						(29)**	63	Control bldg						(79)**
38	Assembly bldg						(46)**	64	Vehicle maint bldg						(75)**
39	Warehouse						(47)**	65	Admin bldg						(2)† 2 stories, airfield related
40	Machine shop						(60)**	66	Warehouse/shop bldg						(30)** see figure 5
41	Shop bldg						(11)†	a	Admin sec						4 stories
42	Machine shop						(64)**	b	Shop/stor sec						2 stories
43	Workshop						(69)**	67	Transshipment bldg						(77)** see figure 5
a	Shop sec						Observed ucom [] late stage of construction	68	Shop bldg						(3)†
b	Shop addition						[]	69	Poss warehouse						(32)** footings were under construction as of []
44	Assembly bldg						(27)**	70	Stor bldg						Previously unnumbered
a	Admin/engr sec						7 stories	71	Stor bldg						Previously unnumbered
b	Admin/engr sec						7 stories	72	Stor bldg						Previously unnumbered
c	Connecting bldg						2 stories	73	Stor bldg						Outside plant boundary
d	Connecting bldg						2 stories	Unnumbered bldgs (26)							
e	Prob shop/spt sec						2 stories; early stage of construction as of [] measurements approximate	Total floorspace constructed this period Floorspace razed this period Net gain in floorspace since [] Current plant total							25X2

This numbering system supersedes those of []
 *Horizontal measurements are accurate to within ± [] plus 1% of measured distance and vertical measurements are accurate to ± [] plus 1% of measured distance, both at a 95% confidence level.

**Number in parenthesis equates to that superseded in report []

†Number in parenthesis equates to that superseded in report []

†Number in parenthesis equates to that superseded in report []

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